

**ABSTRACT OF THE DISCLOSURE**

Processes for converting linear hydrocarbon into normal alpha olefins ("NAOs"). The process comprises a sequence of controlled dehydrogenation followed by ethenolysis.

- 5 The process is especially applicable to upgrade linear hydrocarbons such as produced by Fischer-Tropsch type processes. A process for converting  $C_1$ - $C_3$  alkanes into NAOs and an integrated process including hydrocracking are also disclosed.